NAME OF WORK :Package No.4 (Package consists of 3 works) at Vidyaranyapura & Kodigehalli

Test Reports

Annexure 2

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 22-12-2022

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Date of sample collection: 21-11-2022

Sampling : Sample collected from the site and Tested

Sample Identification*: Birla OPC 43 grade

Reference to BIS codes:

Specification :

IS 269 : 2015 (RA 2020) Ordinary Portland Cement

Test Method:

IS 4031(Part 1):1996(RA 2021) Determination Of Fineness By Dry Sieving

IS 4031 (Part 2):1999 (RA 2018) Determination Of Fineness By Blaine Air Permeability Method

IS 4031(Part 3):1988 (RA 2019) Determination Of Soundness

IS 4031 (Part 4):1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste

IS 4031 (Part 5):1988 (RA 2019) Determination Of Initial & Final Setting Time

IS 4031 (Part 6):1988 (RA 2019) Determination Of Compressive Strength

IS 4031 (Part 11):1988 (RA 2019) Determination Of Density

Date of test: 22-11-2022 to 20-12-2022

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
A	Standard Consistency	30.5	%	Not specified	Not specified	Not specified
B	Initial Setting time	128	Minutes	Min 30 minutes	Not specified	Min 30 minutes
C	Final Setting time	345	Minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
D	Fineness by dry sieving	5.2	%	–	–	–
E	Soundness (Le Chatelier's Method)	3.2	mm	Max 10 mm	Max 10 mm	Max 10 mm
F	Density	3.16	g/cm^3	–	–	–

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
G	Compressive Strength					
	3 Days	24.8	N/mm^2	Min 16 N/mm^2	Min 23 N/mm^2	Min 27 N/mm^2
	7 Days	34.6	N/mm^2	Min 22 N/mm^2	Min 33 N/mm^2	Min 37 N/mm^2
	28 Days	44.4	N/mm^2	Min 33 N/mm^2, Max 48 N/mm^2	Min 43 N/mm^2, Max 58 N/mm^2	Min 53 N/mm^2

Remarks: The tested samples meets the requirements of IS 269 : 2015 (RA 2020) (sixth revision) with respect to above tests conducted.

Note:

1. The test results obtained as shown above pertain to the number of sample Received and Tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

TRANSHEIGHT
PAVING FUTURE

Date: 19-12-2022

TEST REPORT ON PHYSICAL PROPERTIES OF FINE AGGREGATE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Date of sample collection: 21-11-2022
Sampling : Sample Received from the site and Tested
Sample Identification* M-Sand
Reference to BIS codes: **Specification:**
IS 383 : 2016 Coarse and fine aggregate for concrete
Test Method:
IS 2386 (Part 1) : 1963 (RA 2021) Particle Size And Shape Cl.2
IS 2386 (Part 2) : 1963 (RA 2021) Estimation of deleterious materials and organic impurities
IS 2386 (Part 3) : 1963 (RA 2021) Specific gravity, density, voids, absorption and bulking
Test Period: 01-12-2022 to 03-12-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF FINE AGGREGATE:

Total weight taken: 1000 grams

SL.No	Sieve Designation	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383 : 2016 Table-9, (Cl-6.3)				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample confirms to Grading Zone- II
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100	
3	2.36 mm	158	187	18.7	81.3	60-95	75-100	85-100	95-100	
4	1.18 mm	186	373	37.3	62.7	30-70	55-90	75-100	90-100	
5	600 micron	192	565	56.5	43.5	15-34	35-59	60-79	80-100	
6	300 micron	197	762	76.2	23.8	5-20	8-30	12-40	15-50	
7	150 micron	155	917	91.7	8.3	0-10	0-10	0-10	0-15	
8	Pan	83	1000	100	0	---	---	---	---	

PHYSICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016 Table-3, (Cl-5.7)
1	Specific Gravity	2.42	2.1 to 3.2
2	Material Finer than 75µ (%)	8.8	–
3	Fineness Modulus	2.4	–
4	Water Absorption (%)	1.96	5% Max

Remarks: The tested sample is found to be satisfactory as it meets the requirements of IS 383 : 2016 Specification.

Note:
1. The test results obtained as shown above pertain to the number of sample Received and Tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra
Tested By: Rachithanand
Technical Manager:

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Transheight Consultants Pvt. Ltd. Bangalore

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 2/12/2022

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Date of sample collection: 21-11-2022
Sampling : Sample Received from the site and Tested
Sample Identification: 20mm down size Coarse Aggregate
Reference to BIS codes: **Specification:**
IS 383 : 2016 Coarse And Fine Aggregate For Concrete
Test Method:
IS 2386 (Part 1) : 1963 (RA 2021) Particle Size And Shape Cl.2
IS 2386 (Part 3) : 1963 (RA 2021) Specific gravity, density, voids, absorption and bulking
IS 2386 (Part 4) : 1963 (RA 2021) Mechanical Properties
Test Period: 30-11-2022 to 02-12-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: 5000 grams

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	412	412	8.24	91.76	90-100	85-100
3	10 mm	3014	3426	68.52	31.48	25-55	0-20
4	4.75 mm	1249	4675	93.5	6.5	0-10	0-5
5	Pan	325	5000	100	0	---	---

MECHANICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016
1	Flakiness Index (%)	16.10	Combined flakiness & elongation index shall not exceed 40 % for uncrushed or crushed aggregate
2	Elongation Index (%)	14.70	
3	Specific Gravity	2.64	_
4	Water Absorption (%)	0.20	_
5	Aggregate crushing strength (%)	21.30	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 %
6	Aggregate Impact Value (%)	23.50	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 % For Aggregates to be used in concrete other than for wearing surfaces: Max 45 %

Remarks:-The tested sample is found to be satisfactory as it meets the requirements of the IS 383 : 2016 Specification with respect to above tests conducted, where as the gradation conforms to Graded aggregate.

Note:
1. The test results obtained as shown above pertain to the number of sample Received and Tested
2. Any correction in the report will make this report invalidate
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra
Tested By: Rachithanand
Technical Manager:

Transheight Consultants Pvt. Ltd. Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 2/12/2022

TEST REPORT ON MECHANICAL PROPERTIES OF REINFORCEMENT STEEL

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample brought from site and tested

Reference to BIS codes: **Specification:**

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement

Test Method:

IS 1608 (Part 1) : 2022, Metallic Materials, Tensile Testing, Method of Test at Room Temperature

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement - Bend & Rebend Test

Test Period: 21-11-2022

Sl. No	Sample Identification	Nominal size (dia in mm)	Mass per meter (kg/meter)	0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length	Bend Test	Rebend Test
1	Indus TMT 550	8	0.398	568	628	1.11	14.0	–	–
	Indus TMT 550	8	0.396	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	8	0.402	–	–	–	–	–	–
2	Indus TMT 550	10	0.619	582	636	1.09	13.0	–	–
	Indus TMT 550	10	0.621	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	10	0.620	–	–	–	–	–	–
3	Indus TMT 550	12	0.890	596	678	1.14	16.0	–	–
	Indus TMT 550	12	0.891	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	12	0.889	–	–	–	–	–	–

Remarks: The tested samples meets the requirements of IS 1786 : 2008 (RA 2018) with respect to above tests conducted.

1. The test results obtained as shown above pertain to the number of sample Received and Tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra

Tested By: Rachithanand

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

END OF REPORT

TRANSHEIGHT
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REQUIREMENTS AS PER IS: 1786 - 2008 (RA 2018) Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

SL.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

REQUIREMENTS AS PER IS: 1786 - 2008 (RA 2018) Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars - grade	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe TMT 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe TMT 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe TMT 415S	415	540	≥1.25	18
Fe TMT 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe TMT 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe TMT 500S	500	650	≥1.25	16
Fe TMT 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe TMT 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe TMT 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10
Fe TMT 650	650		≥1.06, but TS not less than 700.0 N/mm^2	10
Fe TMT 700	700		≥1.06, but TS not less than 770.0 N/mm^2	10

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TRANSHEIGHT
PAVING FUTURE

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5) | Date: 15-12-2022

I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Kodigehalli Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	15-11-2022
Sample Drawn From	Tindu Govt school
Sample Grade/ Age	M20/ 7 Days
Date of Test	22-11-2022

No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
	Drain Wall Concrete	M20	15-11-2022	22-11-2022	150x150x150	22500	8.510	356	15.8	14.34
2	Drain Wall Concrete	M20	15-11-2022	22-11-2022	150x150x150	22500	8.270	312	13.9	
3	Drain Wall Concrete	M20	15-11-2022	22-11-2022	150x150x150	22500	8.050	300	13.3	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

Prepared By
Pavithra

Tested By
Rachitanand

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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098869 13195

TRANSHEIGHT
PAVING FUTURE

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 15-12-2022

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Kodigehalli Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	15-11-2022
Sample Drawn From	Tindu Govt school
Sample Grade/ Age	M20/ 28 Days
Date of Test	13-12-2022

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Wall Concrete	M20	15-11-2022	13-12-2022	150x150x150	22500	7.590	514	22.8	21.45
2	Drain Wall Concrete	M20	15-11-2022	13-12-2022	150x150x150	22500	7.750	522	23.2	
3	Drain Wall Concrete	M20	15-11-2022	13-12-2022	150x150x150	22500	8.170	412	18.3	

Remarks: Compressive testing report for 28 days gives good characteristic strength which has to be more than 20 N/mm2. Cubes passed compressive testing.

Transheight Consultants Pvt. Ltd. Bangalore

Prepared By
Pavithra

Tested By
Rachitanand
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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098869 13195

TRANSHEIGHT
PAVING FUTURE

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5)	Date:30-04-2023

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Kodigehalli Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	1-04-2023
Sample Drawn From	Ananda layout
Sample Grade/ Age	M20/ 7 Days
Date of Test	8-04-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Wall Concrete	M20	1-04-2023	8-04-2023	150x150x150	22500	8.510	315	14.0	13.51
2	Drain Wall Concrete	M20	1-04-2023	8-04-2023	150x150x150	22500	8.270	301	13.4	
3	Drain Wall Concrete	M20	1-04-2023	8-04-2023	150x150x150	22500	8.050	296	13.2	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed ompressive testing.

Prepared By
Pavithra

Tested By
Rachitanand

Technical Manager

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098869 13195

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 30-04-2023

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Kodigehalli Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	1-04-2023
Sample Drawn From	Ananda layout
Sample Grade/ Age	M20/ 28 Days
Date of Test	29-04-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Wall Concrete	M20	1-04-2023	29-04-2023	150x150x150	22500	7.590	497	22.1	21.51
2	Drain Wall Concrete	M20	1-04-2023	29-04-2023	150x150x150	22500	7.750	453	20.1	
3	Drain Wall Concrete	M20	1-04-2023	29-04-2023	150x150x150	22500	8.170	502	22.3	

Remarks: Compressive testing report for 28 days gives good characteristic strength which has to be more than 20 N/mm2. Cubes passed compressive testing.

Prepared By
Pavithra

Tested By
Rachitanand

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 25-04-2023

TEST REPORTS FOR CEMENT CONCRETE SLAB SAMPLES

ient:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore-560097
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor:	Sri. Chidananda Murthy R.
ntractor Address:	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
IC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Locat n /Land Mark:	Bullet krishnapa laytout and Ananda layout
st Date:	25-04-2023
Work order No:	EE/P-YZ/AGR/ /2022-23

S.NO	Identification Mark	Diameter of core	Hieght of the core	Weight of the core	Area	Faliure Load	Core Compressive strength	Corrected Cylindrical C	compressive strength	Equivalent Cube
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)	
1	Cover Slab -1	77.48	100.23	1.125	4714	80.2	17.3	15.4	15.77	19.87
2	Cover Slab -2	77.42	100.74	1.895	4730	81.7	17.1	16.89	15.2	20.1
3	Cover Slab -3	77.51	100.45	1.474	4789	78.63	16.85	15.4	15.98	19.84

emarks:

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Transheight Consultants Pvt. Ltd.

epared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 26-03-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 26-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Gowaderbedi layout	Gowaderbedi layout	Gowaderbedi layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.302	1.305	1.301
Weight of Prime Coat (d=c-b)	Kg	0.177	0.180	0.176
Rate of spread of Prime coat	kg/Sq.m	0.708	0.720	0.704
Average	**kg/Sq.m**	**0.711**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
Pavithra

Tested by
Rachithanand

Technical Manager:

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Date: 26-02-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 26-02-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Ananada layout	Ananada layout	Ananada layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.304	1.301	1.303
Weight of Prime Coat (d=c-b)	Kg	0.179	0.176	0.178
Rate of spread of Prime coat	kg/Sq.m	0.716	0.704	0.711
Average	**kg/Sq.m**	**0.710**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
Pavithra

Tested By
Rachithanand

Technical Manager:

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098869 13195

Date : 13-03-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 13-3-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Parvathama layout	Parvathama layout	Parvathama layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.304	1.306	1.300
Weight of Prime Coat (d=c-b)	Kg	0.179	0.181	0.175
Rate of spread of Prime coat	kg/Sq.m	0.716	0.724	0.700
Average	**kg/Sq.m**	**0.713**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

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Date: 26-02-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 26-02-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		1st Main road Bk layout	1st Main road Bk layout	1st Main road Bk layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.302	1.305	1.303
Weight of Prime Coat (d=c-b)	Kg	0.177	0.180	0.178
Rate of spread of Prime coat	kg/Sq.m	0.708	0.720	0.711
Average	**kg/Sq.m**	**0.713**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
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Date 30-01-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) ,Vidyaranayapura Sub Division

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 30-01-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Venketeshwara temple road,IECHS Layout	Venketeshwara temple road,IECHS Layout	Venketeshwara temple road,IECHS Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.183	1.178	1.177
Weight of Prime/Tack Coat (d=c-b)	Kg	0.058	0.053	0.052
Rate of spread of tack coat	kg/Sq.m	0.232	0.212	0.208
Average	**kg/Sq.m**	**0.217**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Transheight Consultants Pvt. Ltd. Bangalore

Prepared by
Pavithra

Tested by
Rachitanand

Technical Manager

TRANSHEIGHT CONSULTANTS PVT LTD
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098869 13195

Date : 5-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Division

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 5-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		5th cross, Defence layout	5th cross, Defence layout	5th cross, Defence layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.182	1.177	1.179
Weight of Prime/Tack Coat (d=c-b)	Kg	0.057	0.052	0.054
Rate of spread of tack coat	kg/Sq.m	0.228	0.208	0.216
Average	**kg/Sq.m**	**0.217**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
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Tested by
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Transheight Consultants

Technical Manager

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Date : 6-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 6-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		16th Cross, HMT Layout	16th Cross, HMT Layout	16th Cross, HMT Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.181	1.178	1.176
Weight of Prime/Tack Coat (d=c-b)	Kg	0.056	0.053	0.051
Rate of spread of tack coat	kg/Sq.m	0.224	0.212	0.204
Average	**kg/Sq.m**	**0.213**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
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Sahakarnagar, Bangalore-560092
098869 13195

Date : 14-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 14-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Ananda Layout	Ananda Layout	Ananda Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.177	1.178	1.180
Weight of Prime/Tack Coat (d=c-b)	Kg	0.052	0.053	0.055
Rate of spread of tack coat	kg/Sq.m	0.209	0.212	0.220
Average	**kg/Sq.m**	**0.213**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
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Date : 24-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Division

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 24-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Durgaparmeshwari temple road to Bus stand		
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.180	1.179	1.177
Weight of Prime/Tack Coat (d=c-b)	Kg	0.055	0.054	0.052
Rate of spread of tack coat	kg/Sq.m	0.220	0.216	0.208
Average	**kg/Sq.m**	**0.215**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Prepared by
Pavithra

Tested by
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Technical Manager

TRANSHEIGHT CONSULTANTS PVT LTD
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Date : 28-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 28-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Road opposite thindlu govt hospital	Road opposite thindlu govt hospital	Road opposite thindlu govt hospital
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.180	1.178	1.179
Weight of Prime/Tack Coat (d=c-b)	Kg	0.055	0.053	0.054
Rate of spread of tack coat	kg/Sq.m	0.220	0.212	0.216
Average	**kg/Sq.m**	**0.216**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
Pavithra

Tested by
Rachitanand

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Technical Manager

TRANSHEIGHT CONSULTANTS PVT LTD
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098869 13195

Date: 20-2-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 1st Main road Bk layout

Test Date: 20-2-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	340	340	3.40	96.60	**95-100**
3	22.4	2966	3306	33.06	66.94	**60-80**
4	11.2	1902	5208	52.08	47.92	**40-60**
5	4.75	2104	7312	73.12	26.88	**25-40**
6	2.36	920	8232	82.32	17.68	**15-30**
7	0.600	548	8780	87.80	12.20	**8-22**
8	0.075	1017	9797	97.97	2.03	**0-5**
9	pan	203	10000	100.00	0.00	-

Remarks:

Prepared By: Pavithra

Tested By: Rachithanand

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Technical Manager:

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Date: 25-03-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore 560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: Road opposite to thindlu govt hosptial

Test Date: 25-03-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	371	371	3.71	96.29	**95-100**
3	22.4	2963	3334	33.34	66.66	**60-80**
4	11.2	1989	5323	53.23	46.77	**40-60**
5	4.75	2175	7498	74.98	25.02	**25-40**
6	2.36	902	8400	84.00	16.00	**15-30**
7	0.600	665	9065	90.65	9.35	**8-22**
8	0.075	843	9908	99.08	0.92	**0-5**
9	pan	92	10000	100.00	0.00	-

Remarks:

Assistant Executive Engineer
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BBMP, Bangalore

Prepared By: **Tested By:** **Technical Manager:**

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Date: 2-03-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore 560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: Ananda and MV Layout

Test Date: 2-03-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	335	335	3.35	96.65	**95-100**
3	22.4	2775	3110	31.10	68.90	**60-80**
4	11.2	2213	5323	53.23	46.77	**40-60**
5	4.75	1583	6906	69.06	30.94	**25-40**
6	2.36	1163	8069	80.69	19.31	**15-30**
7	0.600	809	8878	88.78	11.22	**8-22**
8	0.075	959	9837	98.37	1.63	**0-5**
9	pan	163	10000	100.00	0.00	-

Remarks:

Prepared By:
Pavithra

Tested By:
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Kodigehalli Sub Division
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Technical Manager:

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Sahakarnagar, Bangalore-560092
098869 13195

Date 27-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main road Bk layout

Test Date: 27-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.38	
3. Weight of Bitumen Extracted, gm	22.62	
4. Bitumen content in %	4.52	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.38** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	15.20	3.18	3.18	96.82	90 - 100
19	28.70	6.01	9.20	90.80	71-95
13.2	57.70	12.09	21.28	78.72	56-80
4.75	120.40	25.22	46.50	53.50	38-54
2.36	56.60	11.86	58.36	41.64	28-42
0.3	106.60	22.33	80.69	19.31	7-21
0.075	56.60	11.86	92.55	7.45	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

1. Any correction in the report will make this report invalid.
2. This report without prior written approval should not be reproduced or published in full or part.

Prepared By:
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Tested By:
Rachithanand

Technical Manager:

Assistant Executive Engineer
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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date 28-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main road and 5th cross Bk layout

Test Date: 28-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.38	
3. Weight of Bitumen Extracted, gm	22.62	
4. Bitumen content in %	4.52	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.38** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.80	3.73	3.73	96.27	90 - 100
19	54.30	11.37	15.10	84.90	71-95
13.2	64.10	13.43	28.53	71.47	56-80
4.75	108.60	22.75	51.28	48.72	38-54
2.36	39.70	8.32	59.60	40.40	28-42
0.3	99.20	20.78	80.38	19.62	7-21
0.075	73.30	15.35	95.73	4.27	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

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Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

Transheight Consultants Pvt. Ltd. Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 8/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Netravathi bar road ,BK LAYOUT

Test Date: 8-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.36	
3. Weight of Bitumen Extracted, gm	22.64	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.36** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.70	3.71	3.71	96.29	90 - 100
19	73.50	15.40	19.11	80.89	71-95
13.2	63.20	13.24	32.34	67.66	56-80
4.75	106.20	22.25	54.59	45.41	38-54
2.36	40.50	8.48	63.08	36.92	28-42
0.3	77.20	16.17	79.25	20.75	7-21
0.075	69.30	14.52	93.77	6.23	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Tested By: Rachithanand

Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
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098869 13195

Date 13-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Parvathama layout

Test Date: 13-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.32	
3. Weight of Bitumen Extracted, gm	22.68	
4. Bitumen content in %	4.54	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.32** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.80	2.47	2.47	97.53	90 - 100
19	43.00	9.01	11.48	88.52	71-95
13.2	57.00	11.94	23.42	76.58	56-80
4.75	109.30	22.90	46.32	53.68	38-54
2.36	78.60	16.47	62.79	37.21	28-42
0.3	84.20	17.64	80.43	19.57	7-21
0.075	69.80	14.62	95.05	4.95	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 17-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross Ananda layout

Test Date: 17-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.3	
3. Weight of Bitumen Extracted, gm	22.7	
4. Bitumen content in %	4.54	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.3** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	15.00	3.14	3.14	96.86	90 - 100
19	77.50	16.24	19.38	80.62	71-95
13.2	79.90	16.74	36.12	63.88	56-80
4.75	106.60	22.33	58.45	41.55	38-54
2.36	39.60	8.30	66.75	33.25	28-42
0.3	90.10	18.88	85.63	14.37	7-21
0.075	36.70	7.69	93.32	6.68	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 5/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Gowaderbedi layout

Test Date: 5-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.1	
3. Weight of Bitumen Extracted, gm	22.9	
4. Bitumen content in %	4.58	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.1** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	10.40	2.18	2.18	97.82	90 - 100
19	76.60	16.06	18.24	81.76	71-95
13.2	85.00	17.82	36.05	63.95	56-80
4.75	118.80	24.90	60.95	39.05	38-54
2.36	39.50	8.28	69.23	30.77	28-42
0.3	98.20	20.58	89.81	10.19	7-21
0.075	24.60	5.16	94.97	5.03	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 6/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Road opposite to thindlu govt hosptial

Test Date: 6-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.46	
3. Weight of Bitumen Extracted, gm	22.54	
4. Bitumen content in %	4.51	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.46** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	12.50	2.62	2.62	97.38	90 - 100
19	63.60	13.32	15.94	84.06	71-95
13.2	69.80	14.62	30.56	69.44	56-80
4.75	116.30	24.36	54.92	45.08	38-54
2.36	61.80	12.94	67.86	32.14	28-42
0.3	68.40	14.33	82.18	17.82	7-21
0.075	54.70	11.46	93.64	6.36	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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098869 13195

Date : 5/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Gowaderbedi layout

Test Date: 5-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.3	
3. Weight of Bitumen Extracted, gm	22.7	
4. Bitumen content in %	4.54	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.3** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.40	2.39	2.39	97.61	90 - 100
19	33.30	6.98	9.37	90.63	71-95
13.2	75.70	15.86	25.23	74.77	56-80
4.75	111.20	23.30	48.52	51.48	38-54
2.36	55.50	11.63	60.15	39.85	28-42
0.3	93.30	19.55	79.70	20.30	7-21
0.075	59.70	12.51	92.21	7.79	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 6/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Road opposite to thindlu govt hosptial

Test Date: 6-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.18	
3. Weight of Bitumen Extracted, gm	22.82	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.18** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.30	2.79	2.79	97.21	90 - 100
19	60.30	12.64	15.42	84.58	71-95
13.2	62.00	12.99	28.42	71.58	56-80
4.75	105.70	22.15	50.57	49.43	38-54
2.36	59.20	12.41	62.97	37.03	28-42
0.3	91.50	19.18	82.15	17.85	7-21
0.075	47.90	10.04	92.19	7.81	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 17/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross Ananda layout

Test Date: 17-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.36	
3. Weight of Bitumen Extracted, gm	22.64	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.36** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.70	2.45	2.45	97.55	90 - 100
19	30.10	6.31	8.76	91.24	71-95
13.2	59.10	12.38	21.14	78.86	56-80
4.75	127.10	26.63	47.76	52.24	38-54
2.36	57.70	12.09	59.85	40.15	28-42
0.3	94.40	19.78	79.63	20.37	7-21
0.075	65.80	13.78	93.41	6.59	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 13/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Parvathama layout

Test Date: 13-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.34	
3. Weight of Bitumen Extracted, gm	22.66	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.34** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.90	3.12	3.12	96.88	90 - 100
19	51.20	10.73	13.85	86.15	71-95
13.2	57.50	12.05	25.89	74.11	56-80
4.75	111.50	23.36	49.25	50.75	38-54
2.36	46.90	9.83	59.08	40.92	28-42
0.3	102.80	21.54	80.61	19.39	7-21
0.075	57.20	11.98	92.60	7.40	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 08/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Netravathi bar road ,BK LAYOUT

Test Date: 8-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.14	
3. Weight of Bitumen Extracted, gm	22.86	
4. Bitumen content in %	4.57	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.14** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.00	2.31	2.31	97.69	90 - 100
19	41.70	8.74	11.04	88.96	71-95
13.2	78.30	16.41	27.46	72.54	56-80
4.75	113.60	23.81	51.26	48.74	38-54
2.36	54.30	11.38	62.64	37.36	28-42
0.3	95.30	19.97	82.62	17.38	7-21
0.075	46.50	9.75	92.36	7.64	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

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Prepared By: Pavithra

Tested By: Rachithanand

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Sahakarnagar, Bangalore-560092
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Date : 28/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main road and 5th cross Bk layout

Test Date: 28-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.24	
3. Weight of Bitumen Extracted, gm	22.76	
4. Bitumen content in %	4.55	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.24** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.10	3.58	3.58	96.42	90 - 100
19	73.90	15.48	19.07	80.93	71-95
13.2	64.70	13.56	32.63	67.37	56-80
4.75	111.30	23.32	55.95	44.05	38-54
2.36	54.10	11.34	67.28	32.72	28-42
0.3	76.30	15.99	83.27	16.73	7-21
0.075	47.60	9.97	93.24	6.76	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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098869 13195

Date : 27/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main road Bk layout

Test Date: 27-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.42	
3. Weight of Bitumen Extracted, gm	22.58	
4. Bitumen content in %	4.52	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.42** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.00	2.93	2.93	97.07	90 - 100
19	42.20	8.84	11.77	88.23	71-95
13.2	74.50	15.60	27.38	72.62	56-80
4.75	118.70	24.86	52.24	47.76	38-54
2.36	56.30	11.79	64.03	35.97	28-42
0.3	82.90	17.36	81.40	18.60	7-21
0.075	56.80	11.90	93.29	6.71	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 3-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 12th cross ,MV Layout
Test Date: 3-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.52	
3. Weight of Binder Extracted, gm	27.48	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.52** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	29.50	6.24	6.24	93.76	90 - 100
9.5	88.60	18.75	24.99	75.01	70-88
4.75	88.50	18.73	43.72	56.28	53-71
2.36	54.30	11.49	55.21	44.79	42-58
1.18	43.80	9.27	64.48	35.52	34-48
0.6	39.60	8.38	72.86	27.14	26-38
0.3	41.80	8.85	81.71	18.29	18-28
0.15	11.40	2.41	84.12	15.88	12-20
0.075	28.40	6.01	90.13	9.87	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 6-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: 1st,2nd,3rd & 4rh Sonnapa layout
Test Date: 5-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.56	
3. Weight of Binder Extracted, gm	27.44	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.56** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	17.20	3.64	3.64	96.36	90 - 100
9.5	79.60	16.84	20.48	79.52	70-88
4.75	73.50	15.55	36.04	63.96	53-71
2.36	68.30	14.45	50.49	49.51	42-58
1.18	29.40	6.22	56.71	43.29	34-48
0.6	53.40	11.30	68.01	31.99	26-38
0.3	45.20	9.56	77.58	22.42	18-28
0.15	35.20	7.45	85.03	14.97	12-20
0.075	30.50	6.45	91.48	8.52	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 15-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Netravathi bar road, BK Layout
Test Date: 15-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.72	
3. Weight of Binder Extracted, gm	27.28	
4. Binder content in %	5.46	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.72** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	21.10	4.46	4.46	95.54	90 - 100
9.5	71.80	15.19	19.65	80.35	70-88
4.75	83.10	17.58	37.23	62.77	53-71
2.36	93.10	19.69	56.93	43.07	42-58
1.18	33.70	7.13	64.05	35.95	34-48
0.6	29.40	6.22	70.27	29.73	26-38
0.3	48.40	10.24	80.51	19.49	18-28
0.15	23.40	4.95	85.46	14.54	12-20
0.075	38.70	8.19	93.65	6.35	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 15-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st main road, BK Layout
Test Date: 15-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.76	
3. Weight of Binder Extracted, gm	27.24	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.76 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	15.50	3.28	3.28	96.72	90 - 100
9.5	85.60	18.11	21.39	78.61	70-88
4.75	92.50	19.57	40.95	59.05	53-71
2.36	78.70	16.65	57.60	42.40	42-58
1.18	29.30	6.20	63.80	36.20	34-48
0.6	38.30	8.10	71.90	28.10	26-38
0.3	24.50	5.18	77.08	22.92	18-28
0.15	33.40	7.06	84.14	15.86	12-20
0.075	34.40	7.28	91.42	8.58	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 3-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross ,BK Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.96	
3. Weight of Binder Extracted, gm	27.04	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.96** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	19.00	4.02	4.02	95.98	90 - 100
9.5	58.30	12.33	16.34	83.66	70-88
4.75	94.10	19.90	36.24	63.76	53-71
2.36	62.30	13.17	49.41	50.59	42-58
1.18	38.80	8.20	57.62	42.38	34-48
0.6	46.40	9.81	67.43	32.57	26-38
0.3	64.50	13.64	81.06	18.94	18-28
0.15	31.20	6.60	87.66	12.34	12-20
0.075	30.40	6.43	94.09	5.91	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 15-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Parvathma layout
Test Date: 15-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.68	
3. Weight of Binder Extracted, gm	27.32	
4. Binder content in %	5.46	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.68 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.30	5.35	5.35	94.65	90 - 100
9.5	81.60	17.26	22.62	77.38	70-88
4.75	53.40	11.30	33.91	66.09	53-71
2.36	67.10	14.20	48.11	51.89	42-58
1.18	20.50	4.34	52.45	47.55	34-48
0.6	51.80	10.96	63.40	36.60	26-38
0.3	56.20	11.89	75.29	24.71	18-28
0.15	32.40	6.85	82.15	17.85	12-20
0.075	55.60	11.76	93.91	6.09	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 18-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Ananda layout

Test Date: 18-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.7	
3. Weight of Binder Extracted, gm	27.3	
4. Binder content in %	5.46	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.7 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	26.80	5.67	5.67	94.33	90 - 100
9.5	87.70	18.55	24.22	75.78	70-88
4.75	79.30	16.78	41.00	59.00	53-71
2.36	66.60	14.09	55.09	44.91	42-58
1.18	50.70	10.73	65.81	34.19	34-48
0.6	28.90	6.11	71.93	28.07	26-38
0.3	45.50	9.63	81.55	18.45	18-28
0.15	17.90	3.79	85.34	14.66	12-20
0.075	38.80	8.21	93.55	6.45	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 13-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Gowaderbedi layout
Test Date: 13-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.94	
3. Weight of Binder Extracted, gm	27.06	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.94 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.70	5.43	5.43	94.57	90 - 100
9.5	89.50	18.92	24.36	75.64	70-88
4.75	87.70	18.54	42.90	57.10	53-71
2.36	78.90	16.68	59.58	40.42	42-58
1.18	22.10	4.67	64.26	35.74	34-48
0.6	39.40	8.33	72.59	27.41	26-38
0.3	39.40	8.33	80.92	19.08	18-28
0.15	28.50	6.03	86.95	13.05	12-20
0.075	36.20	7.65	94.60	5.40	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:
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Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date 14-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Road opposite thindlu govt hospital
Test Date: 14-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.6	
3. Weight of Binder Extracted, gm	27.4	
4. Binder content in %	5.48	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.6 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	12.90	2.73	2.73	97.27	90 - 100
9.5	88.80	18.79	21.52	78.48	70-88
4.75	63.80	13.50	35.02	64.98	53-71
2.36	78.30	16.57	51.59	48.41	42-58
1.18	21.20	4.49	56.07	43.93	34-48
0.6	44.10	9.33	65.40	34.60	26-38
0.3	55.00	11.64	77.04	22.96	18-28
0.15	25.10	5.31	82.35	17.65	12-20
0.075	46.40	9.82	92.17	7.83	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 14-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Road opposite thindlu govt hospital
Test Date: 14-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.96	
3. Weight of Binder Extracted, gm	27.04	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.96 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.50	3.49	3.49	96.51	90 - 100
9.5	70.50	14.91	18.39	81.61	70-88
4.75	93.00	19.66	38.06	61.94	53-71
2.36	92.00	19.45	57.51	42.49	42-58
1.18	37.30	7.89	65.40	34.60	34-48
0.6	33.30	7.04	72.44	27.56	26-38
0.3	29.30	6.20	78.63	21.37	18-28
0.15	29.80	6.30	84.93	15.07	12-20
0.075	36.20	7.65	92.59	7.41	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 13-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Gowaderbedi layout
Test Date: 13-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.74	
3. Weight of Binder Extracted, gm	27.26	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.74 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	22.60	4.78	4.78	95.22	90 - 100
9.5	68.40	14.47	19.25	80.75	70-88
4.75	51.70	10.94	30.19	69.81	53-71
2.36	74.40	15.74	45.92	54.08	42-58
1.18	47.20	9.98	55.91	44.09	34-48
0.6	57.90	12.25	68.16	31.84	26-38
0.3	53.30	11.27	79.43	20.57	18-28
0.15	35.30	7.47	86.90	13.10	12-20
0.075	38.70	8.19	95.08	4.92	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 18-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Ananda layout

Test Date: 18-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.98	
3. Weight of Binder Extracted, gm	27.02	
4. Binder content in %	5.40	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.98** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	17.50	3.70	3.70	96.30	90 - 100
9.5	81.70	17.27	20.97	79.03	70-88
4.75	63.20	13.36	34.34	65.66	53-71
2.36	68.60	14.50	48.84	51.16	42-58
1.18	34.80	7.36	56.20	43.80	34-48
0.6	56.50	11.95	68.14	31.86	26-38
0.3	49.80	10.53	78.67	21.33	18-28
0.15	41.20	8.71	87.38	12.62	12-20
0.075	32.30	6.83	94.21	5.79	4-10

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Date 15-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Parvathma layout

Test Date: 15-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.54	
3. Weight of Binder Extracted, gm	27.46	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.54 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.50	5.40	5.40	94.60	90 - 100
9.5	57.90	12.25	17.65	82.35	70-88
4.75	62.20	13.16	30.81	69.19	53-71
2.36	85.40	18.07	48.88	51.12	42-58
1.18	20.50	4.34	53.22	46.78	34-48
0.6	53.60	11.34	64.57	35.43	26-38
0.3	54.30	11.49	76.06	23.94	18-28
0.15	31.90	6.75	82.81	17.19	12-20
0.075	36.10	7.64	90.45	9.55	4-10

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Date 15-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st main road, BK Layout
Test Date: 15-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.86	
3. Weight of Binder Extracted, gm	27.14	
4. Binder content in %	5.43	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.86 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	20.70	4.38	4.38	95.62	90 - 100
9.5	66.30	14.02	18.40	81.60	70-88
4.75	99.50	21.04	39.44	60.56	53-71
2.36	74.50	15.76	55.20	44.80	42-58
1.18	32.00	6.77	61.96	38.04	34-48
0.6	35.00	7.40	69.37	30.63	26-38
0.3	47.20	9.98	79.35	20.65	18-28
0.15	29.10	6.15	85.50	14.50	12-20
0.075	31.20	6.60	92.10	7.90	4-10

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Date 5/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Netravathi bar road, BK Layout
Test Date: 15-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.76	
3. Weight of Binder Extracted, gm	27.24	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.76 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.50	3.49	3.49	96.51	90 - 100
9.5	68.30	14.45	17.94	82.06	70-88
4.75	64.20	13.58	31.52	68.48	53-71
2.36	91.00	19.25	50.77	49.23	42-58
1.18	25.10	5.31	56.07	43.93	34-48
0.6	59.50	12.59	68.66	31.34	26-38
0.3	47.40	10.03	78.69	21.31	18-28
0.15	32.40	6.85	85.54	14.46	12-20
0.075	38.60	8.16	93.71	6.29	4-10

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Date 31-01-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross ,BK Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.54	
3. Weight of Binder Extracted, gm	27.46	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.54** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	29.10	6.16	6.16	93.84	90 - 100
9.5	70.70	14.96	21.12	78.88	70-88
4.75	51.80	10.96	32.08	67.92	53-71
2.36	67.30	14.24	46.32	53.68	42-58
1.18	41.60	8.80	55.13	44.87	34-48
0.6	48.40	10.24	65.37	34.63	26-38
0.3	62.20	13.16	78.53	21.47	18-28
0.15	35.30	7.47	86.00	14.00	12-20
0.075	36.70	7.77	93.77	6.23	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 3/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 12th cross ,MV Layout
Test Date: 3-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.84	
3. Weight of Binder Extracted, gm	27.16	
4. Binder content in %	5.43	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.84** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	24.60	5.20	5.20	94.80	90 - 100
9.5	77.30	16.35	21.55	78.45	70-88
4.75	64.40	13.62	35.17	64.83	53-71
2.36	81.40	17.22	52.39	47.61	42-58
1.18	23.20	4.91	57.29	42.71	34-48
0.6	36.80	7.78	65.07	34.93	26-38
0.3	58.70	12.41	77.49	22.51	18-28
0.15	37.40	7.91	85.40	14.60	12-20
0.075	31.30	6.62	92.02	7.98	4-10

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Date 5/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st,2nd,3rd & 4rh Sonnapa layout
Test Date: 5-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.88	
3. Weight of Binder Extracted, gm	27.12	
4. Binder content in %	5.42	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.88 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	28.60	6.05	6.05	93.95	90 - 100
9.5	60.50	12.79	18.84	81.16	70-88
4.75	69.40	14.68	33.52	66.48	53-71
2.36	82.30	17.40	50.92	49.08	42-58
1.18	25.50	5.39	56.31	43.69	34-48
0.6	59.30	12.54	68.85	31.15	26-38
0.3	48.20	10.19	79.05	20.95	18-28
0.15	35.20	7.44	86.49	13.51	12-20
0.075	32.10	6.79	93.28	6.72	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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